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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files

DATE: 31 July 1958

FROM :

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SUBJECT: Conference Report - Contract RD-76, Task Order F, Miniature Data Recorder, CB-3

1. On 24 July 1958, a conference was held in Room 2612 Alcott Hall for the purpose of discussing progress on the subject project. Those present were:

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[] stated that [], sub-contractor, had completed their work on the project and that all deliverable items were received and appeared satisfactory.

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2. [] claims that the 3-channel heads developed for the project have record playback response within 3 db from 250 cycles per second to 10 kc at a tape speed of 1-7/8 inches per second. However, these heads are extremely difficult to fabricate resulting in extremely high costs. Improved jigs and fixtures might effect a reduction of the present unit cost of \$800.00. The playback equipment built by [] contains a Wien-bridge oscillator-power amplifier which is used to drive the single phase induction capstan motor. This renders the tape speed manually adjustable over a range from 1.1 inches per second to 3.5 inches per second which is an important feature of the equipment.

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3. [] noted that [] effort during the past month has been devoted to shielding and filtering the DC drive motor being used in the recorder. Also wow and flutter control on the CB-3 engineering model remains an outstanding problem. The amplifiers have been completed. The [] electro-mechanical oscillator originally planned for use in the CB-3 has failed to meet the necessary accuracy. All other available crystal and electro-mechanical oscillators have proved too large or inaccurate. Present work includes design of a self-excited electronic oscillator. Tests to date indicate that this LC oscillator will provide a more favorable ratio of frequency stability to package size than all others tested. Sufficient funds remain for two months of R&D work, which, at this time appears adequate.

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